

## ENGINEERING CHECKS AS 39 CLASS

#### AUXILIARIES (AX) PRE-UNDERWAY PHASE

5811	ANCHOR	WINDLASS (Inpor	t Drop Test)
Component/Sub-Con	nponent	Proposed	Accepted
		Procedure	Procedure
Inspect Tech Manual Support			
Inspect PMS Support			
Inspect posted operating/safet	y instructions		
and lubrication data			
Inspect fluid samples			
Inspect for proper HPU fluid			
Inspect for proper lubrication	of mechanical		
components			
Inspect Gauge Calibration			
Inspect relief valve data is pro			
Inspect all flex hoses are prop	erly tested and		
labeled			
Inspect mechanical brake open	ator linkages		
Inspect stroke control linkages	S		
Inspect flange shields			
Inspect for adequate nitrogen	charge for		
windlass			
Inspect speed limiter			
Inspect for adequate LP air pr	essure for chain		
compressor			
Inspect capstan/wildcat brake			
mechanical brake components	(worm gear end		
cap as required).			
Inspect electric brake			
Inspect filter differential indic			
Inspect HPU mechanical seal			
Test Compensating Relief Val	ve is properly		
set			
Test - Conduct Inport Anchor Drop test			
- Inspect Servo/Replenishment Pressures			
during wildcat operation			
- Inspect Chain Compressor o			
- Inspect Anchor drops from t			
- Test electric brake operation			

- Inspect reduction gear lubrication	
(gauges/sight flows/dipsticks)	
Test crossover valve operation	
Test wildcat/windlass solenoid switch	
Test Main Relief Valve lifts correctly	

5600 / 5611	STEERING (I	nport System Ve	rification)
Component/Sub-C	omponent	Proposed Procedure	Accepted Procedure
Inspect Tech Manual and EOS	S Support		
Inspect PMS Support			
Inspect operating/safety instruc			
system/electrical wiring diagram	ms are posted		
Inspect proper fluid levels			
Inspect hydraulic oil fill connec	ctions are properly		
labeled			
Inspect fluid samples			
Inspect Gauge Calibration			
Inspect rudder stock grounding	straps		
Inspect filter indicators			
Inspect Servo/Replenishment P	ressures are correct		
Inspect all flex hoses are prope	rly tested/labeled		
Inspect flange shields are prope	erly installed		
Test N2 accumulators are property	erly charged		
Test the trick wheel stops			
Inspect the crush block clearan	ces		
Test the rudder follow up error			
0 to 5 deg; 5 deg increments at	5 to 25 deg)		
Test ABT operation			
Test compensator relief valve s	ettings		
Test main relief valve settings			
Test (inport) rudder swing chec	eks		
Test (inport) blocking valve			
Test auxiliary emergency steer	ng pump		
Test manual emergency steerin	g system		
Inspect ram for scoring			
Test steering casualty alarm			
Test pump remote operation an	d transfer of controls		
to pilot house			
Test for static rudder split (pilo			
Test for indicator error (pilot he	ouse in control)		

A-002/105-11	EMERGENCY/SHIP'S SERVIO DIESEL GENERATORS	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Engine Sump Level		
Inspect Turbocharger Sump Level		
Inspect Start Air Lubricator Oil Level		
Inspect Governor Oil Level		
Inspect Lube Oil Sample		
Inspect J/W Expansion Tank Level		
Inspect "Do not open access" and		
Expansion Tank warning "Poison" are		
posted		
Inspect/test fuel valve trip		
Inspect Relief Valves		
Inspect Flange Shielding		
Inspect For Exhaust Leaks		
Inspect Filters, Strainers		
Inspect Governor and Fuel Linkage for		
Binding		
Inspect J/W Standby Pump		
Test Blow In Damper		
Test pre-lube system operation		
Test Jacket Water High Temp Alarm		
Test Lube Oil Filter High DP Alarm		
Test low lube oil pressure alarm		
Test Remote Shut Down		
Test Local Shut Down		
Test Barring Device Interlock		
Test Engine Blow Down		
Test Local Pneumatic start		
Test dead bus auto start		
Test Overspeed Trip		
Test 80% load for 15 minutes		
Inspect for fuel/lube oil leaks		
Inspect pyrometer operation		
Inspect manometer		
Inspect sea water cooling pump		
Test high water/generator bearing temp		
alarm		

5512 / 5513 / 5515	LOW and MEDIU	M PRESSURE A	IR SYSTEM
Component/Sub-Component		Proposed Procedure	Accepted Procedure
Inspect Tech Manual and EOSS	S Support		
Inspect PMS Support			
Inspect Gauge Calibration			
Inspect operating/safety instruc	tions are posted		
Inspect compressor oil level and	d oil samples		
Test compressor pressures and	temperatures		
Test compressor capacity contr	ol system		
Inspect compressor belt conditi			
Test compressor auto control ar	nd safety switches		
<ol> <li>a. Operational control switch</li> </ol>	ches (115/120/125)		
b. Low oil pressure			
c. High discharge pressure			
d. High air and water temp			
Inspect all relief valve testing is	s within periodicity		
Inspect location of intake/vent	11 1		
Inspect receiver flask certification	ion		
Test priority valve operation			
Inspect sea water cooling system	m		
Inspect 50/50 mixture of ethyle	ne glycol		
Test type I and type II dehydrat	tor operation		
a. Gauge calibration			
b. Tower operation			
c. Purge air pressure			
d. Automatic drain operation			
e. Dew point			
f. Inspect PMS and Tech N	Manual support		

5511 / 5515	HIGH PRES	SURE AIR SYS	TEM
Component/Sub-	Component	Proposed Procedure	Accepted Procedure
Inspect Tech Manual and EO	CC Cromport	Frocedure	Frocedure
Inspect Tech Manual and EO	ss support		
Inspect PMS Support			
Inspect Gauge Calibration			
Inspect operating/safety instr			
Inspect compressor oil level a			
Test compressor auto control	and safety switches		
a. Start / Stop switch			
b. Low oil pressure switch			
c. Jacket water temp swit			
d. Compressor temp/pres	sure monitor operation		
Inspect compressor pressures	•		
Inspect compressor drive belt			
Inspect condensate monitorin	g/drain system		
Inspect all flex hoses are prop	perly tested/labeled		
Inspect all relief valve testing	is within periodicity		
Inspect HP air flask certificat	ion		
Inspect sea water cooling sys	tem		
Inspect air intake/ventilation	supply location		
Inspect all HP/LP air reducin	g stations		
Inspect fresh water pump belts			
Inspect capacity	* *		
Inspect oil wipers			
Inspect pressure regulator valve			
Inspect 50/50 mixture of ethy			
Inspect seals for oil leaks	¥ •		

5210	FIRE PUMPS (ELECTRIC and STEAM)		
Component/Sub-Co	omponent	Proposed Procedure	Accepted Procedure
Inspect Tech Manual and EOSS	S Support		
Inspect PMS Support			
Inspect Gauge Calibration			
Inspect Transducer Calibration			
Inspect Coupling Guard			
Inspect relief valves are within	periodicity		
Test remote start/stop functions	}		
Test local start/stop functions			
Inspect pump operation/design	discharge pressure,		
unusual noise, bearing temps, e	tc.		
Test the over speed trip (STEA	M)		
Test the speed limiting governo	or (STEAM)		
Test the turbine auxiliary lube of	1 1		
automatic start switch operation	n (STEAM)		
Inspect lube oil filter indication	s and oil level		
(STEAM)			
Test combination exhaust and r	` /		
Inspect the packing and mechan	nical seal leakage		
Inspect for ferrous fasteners			
Inspect the resilient mounts			
Inspect condition of expansion joints			
Inspect all flex hoses are properly tested/labeled			
Inspect piping lagging			
Inspect grounding straps			
Test remote operated suction/di	scharge valves		
Inspect the suction strainer			

5240	SEAWATE	R SERVICE PUN	<b>IPS</b>
Component/Sub-Component		Proposed Procedure	Accepted Procedur e
Inspect Tech Manual and EOSS	S Support		
Inspect PMS Support			
Inspect Gauge Calibration			
Inspect Transducer Calibration			
Inspect Coupling Guard			
Test remote start/stop functions			
Test local start/stop functions			
Inspect pump operation/design unusual noise, bearing temps, e			
Inspect packing and mechanica	l seal leakage		
Inspect for ferrous fasteners			
Inspect foundation and resilient	mounts		
Inspect condition of expansion	joints		
Inspect all flex hoses are proper	rly tested/labeled		
Inspect piping lagging			
Inspect grounding straps			
Test remote operated suction/discharge valves			
Inspect the suction strainer	Inspect the suction strainer		
Test the firemain to seawater re operation, condition and relief			

5140	DITIONING PLA	ANTS	
Component/Sub-		Proposed	Accepted
1	1	Procedure	Procedure
Inspect EPA certifications			
Inspect Tech Manual and EO	SS Support		
Inspect PMS Support	**		
Inspect Gauge Calibration			
Inspect operating/safety instructions are posted			
Inspect compressor oil level a	and oil samples		
Inspect warning at entrance (	Freon usage) posted		
Inspect Refrigerant logs			
Test halocarbon monitor of	peration		
Test capacity control system	operation		
Test calibration of safety shu			
a. HP/LP pressure switch	nes		
b. C/W, S/W flow/press/	temp switches		
c. Low refrigerant temps			
d. Low oil pressure switch	h		
Inspect moisture indicators			
Test compressor operation (p	arameters, suct/disch		
valves)			
Test for leaks (oil/freon/wate	r)		
Inspect chilled water pump			
a. suction valve			
b. discharge valve			
c. mechanical seal			
Inspect chilled water expansi			
a. Proper operating level			
<ul> <li>b. Filling pipe air gap</li> </ul>			
c. Relief valves and vac			
d. Hose disconnects and	warning sign		
Test PPU			
Inspect recovery unit (Invent			
Inspect for available vacuum	pump		
Inspect sea water system			
a. Pump operation			
b. Zincs and nylon tube	•		
c. Condenser header con			
d. Seawater Regulating valve			
Inspect motor controller			
Inspect coupling guard			
Inspect resilient mounts			

Inspect flex hoses		
	( A <b>T</b> T)	

#### AUXILIARIES (AX) UNDERWAY DEMO PHASE

5811	ANCHOR WINDLASS DROP AND RETRIEVAL DEMONSTRATION		
Component/Sub-Con	nponent	Proposed Procedure	Accepted Procedure
Test - Conduct Anchor Drop a test	and Retrieval		
- Inspect Servo/Replenishmen Relief Pressures during wilder			
- Inspect Anchor drops from the	he hawsepipe		

5600 / 5611	STEERING	DEMONSTRA	TION
Component/Sub-C	omponent	Proposed	Accepted
		Procedure	Procedure
Inspect proper fluid levels			
Inspect correct Servo/Replenish	nment pressures		
Test - Demonstrate timed rudder swing checks/			
blocking valve test Ahead (as per provided			
procedure)			
Test - Demonstrate timed rudder swing checks/			
blocking valve test Astern (as per provided			
procedure)			
Inspect for dynamic rudder spli	t from helm indicator		

5331	WATER HEATERS		
Component/Sub-	-Component	Proposed	Accepted
		Procedure	Procedure
Inspect Tech Manual and EO	SS Support		
Inspect PMS Support			
Inspect list of heaters onboar	ct list of heaters onboard and spaces hot water		
services (berthing/laundry/ga	lley)		
Inspect gauge calibration			
Inspect outlet temp at heater	outlet temp at heater (verify operation)		
Inspect relief valve test data			
Inspect relief valve drain piping			
Inspect cold water inlet pipe	for check valve		

Test high temp switch setting	
Test high temp switch warning light	
Inspect lagging condition	
Inspect for steam / water leaks	
Inspect Temp Reg Valve for locking device	
Inspect heater foundation	
Test water temp at basin/spigot	

5351		ER and COPPE STEAM PIPING	
Component/Sub-Compo	nent	Proposed Procedure	Accepted Procedure
Inspect Gauge calibration			
Inspect PMS Support			
Inspect warning placard posted – war pressure before disconnecting	rning bleed		
Inspect piping/valve condition and or	peration		
Inspect protective cover			
Inspect relief valve for test data			
Inspect overall area preservation			
Inspect ship has reviewed NAVSEA 130557Z FEB 01 concerning copper			
Inspect the ship has established an in program IAW NAVSEA message	spection		
Inspect - Conduct a walkthrough of a service steam piping to check for lead NAVSEA message			

5311	WATER PRODUC FLAS	CTION DEMON SH TYPE EVAP	·-
Component/Sub-Co	mponent	Proposed Procedure	Accepted Procedure
Inspect PMS and Tech Manual s	upport		
Inspect gauge calibration			
Test flow meter			
Inspect evaporator shell (sight gland scale buildup)	lasses, diffuser cap		
Test salinity dump valves			
Test interlock device between po	otable water and feed		
water valves			
Inspect feed pump (labeled, pack	king gland,		
foundation, seal / gland cavity)			
Inspect brine pump (labeled, packing gland,			
foundation, seal / gland cavity)			
Inspect distillate pump (labeled,	packing gland,		
foundation, seal / gland cavity)			
Inspect brine pump (labeled, pac	king gland,		
foundation, seal / gland cavity)			
Inspect heater drain pump (label	ed, packing gland,		
foundation, seal / gland cavity)			
Inspect flexible hose condition and test tag			
Inspect feedwater strainer (foundation and basket)			
Inspect pipe labeling and lagging	g condition		
Test - Demonstrate 80% water p			
during the 4 Hour Water Produc	tion Demonstration		

8543	DUMBWAITER	
Component/Sub-Component	Proposed	Accepted
	Procedure	Procedure
Inspect Tech Manual and EOSS Support		
Inspect PMS Support		
Inspect posted operating/safety instructions at each		
station		
Inspect posted lubrication chart at top station		
Inspect trunk bi-parting doors		
Inspect machinery access cover bolts & nuts		
Inspect machinery oil level		
Inspect hoist machinery mounting hardware		
Inspect hoist drum		
Inspect hoist wire rope and end fittings		
Test slack rope device and limit switch		
Test the hoist brake		
Test the up over travel limit switch		
Test the up deck level limit switch		
Test trunk bi-parting door limit switch		
Inspect car broken rope device		
Inspect car bi-parting door assembly		
Inspect car for missing components		
Test lower level trunk bi-parting doors and limit		
switch		
Test down over travel limit switch		
Test down level limit switch		
Inspect trunk buffer springs		
Test E-call and sound powered phone system when		
installed		
Inspect clean out cover mounting hardware		
Inspect motor controller for loose leads, posted		
placards, grounds and correct fuses		
Inspect dumbwaiter trunk for preservation and		
cleanliness		
Inspect guide rails		
Test each control station E-stop button		

8543	PACKAGE CONVEYOR		
Component/Sub-Compone	ent	Proposed	Accepted
		Procedure	Procedure
Inspect Tech Manual and EOSS Suppo	ort		
Inspect PMS Support			
Inspect posted operating/safety instruct	tions (two man		
rule/ do not ride) at each station			
Inspect posted lubrication chart at top s	station		
Test for audible warning when starting			
Inspect that all station doors are locked	l		
Inspect that all station controllers are lo	ocked		
Test door interlock system			
Inspect load/unloader at each station			
Test door cannot close when loader/un	loader is in		
horizontal or 30 deg inclined position			
Test loader/unloader down interlock sv	vitch at each		
station below upper most level			
Test jam limit switch at each station			
Inspect safety shields are properly insta	alled		
Test up-over travel switch/device operation	ation		
Test clean out door interlock switch if	applicable		
Test down overtravel device and switch	h		
Test indexing feature			
Test E-stop and run/stop buttons at all	stations		
Inspect proper florescent lighting at each	ch station		
Inspect trunk shielding and mounting h	nardware		
Inspect trunk guide rails			
Inspect conveyor trunk for preservation	n/cleanliness		
Inspect all carrier trays are installed and	d tight		
Test all station growlers and phone circ	cuits are		
functional and headsets are present			
Inspect conveyor has been load tested	within the last		
five years to include weight test data			
Inspect speed reducer is filled to proper level with oil			
Inspect drive, driven and carrier chains are properly			
tensioned			
Test bite panel for correct components and proper			
operation			
Inspect motor controller for loose leads, posted			
placards, grounds and correct fuses			
Inspect drive machinery for missing/lo	ose		
components			

5161	REFRIGERATION PLANTS		
Components/Sub-Con	nponents	Proposed Procedure	Accepted Procedure
Inspect EPA certifications		Flocedule	Frocedure
Inspect Er A certifications  Inspect Tech Manual and EOSS S	Support		
Inspect PMS Support	опрроге		
Inspect Gauge Calibration			
Inspect operating/safety instruction	ons are posted		
Inspect compressor oil level and o	•		
Inspect warning at entrance (Free			
Inspect Refrigerant logs	n usuge) posteu		
Test halocarbon monitor operation	tion		
Test capacity control system oper			
Test calibration of alarm / shutdo			
a. HP / LP pressure switches			
b. Sea water flow / pressure	switch		
Test compressor operation (paran	neters,		
suction/discharge valves)			
Inspect for piping suppressors			
Inspect for leaks (oil/freon/sea wa	ater)		
Inspect refrigerant recovery syste	m/vacuum pumps		
Inspect sea water system (pump of			
nylon tube inserts, and condenser header)			
Test chill/freezer boxes for fan op	peration, lighting,		
coil condition and curtains			
Inspect ventilation (flow/location	indicators and		
alarms			

6641	F	AN ROOMS	
Component/Sub-Con	mponent	Proposed Procedure	Accepted Procedure
Inspect deck condition			
- No standing water			
- Deck rusted / exfoliated			
- Deck drain not installed			
- Deck drain missing, not secured	d within deck socket		
or inoperative			
Inspect deck/bulkheads have no	painted over rust		
Inspect lighting is operative and	covers installed		
Inspect adequate lighting present	in space		
Inspect vent duct condition			
- Access covers present			
- Access cover fasteners not ruste	ed/missing		
- Duct interior is clean			
Inspect correct vent/piping system	m labeling		
Inspect fan motor installed correct	ctly (flow)		
Inspect filters are clean and can be	be easily removed		
Inspect filter DP gauge is operati	ve		
Inspect vent heating element is o	perative and not		
deteriorated			
Inspect cooling coils are clean			
Inspect thermostatic controls are	calibrated,		
connected and operational			
Inspect the cooling coil drain is p	piped to the deck		
drain and is not clogged			
Inspect the proper color coding of piping			
Inspect that all hand wheels are present			
Inspect for damaged / missing lagging			
Test the C/W or steam solenoids are operational			
Inspect for chilled water / steam leaks			
Inspect for bull's eye and CCOL in space			
Inspect for any unauthorized stowed material			
Inspect for any unauthorized flan	nmables		
Inspect the filter cleaning shop			

5331	POTAB	LE WATER PU	MPS
Component/Sub-Comp	ponent	Proposed	Accepted
		Procedure	Procedure
Inspect Tech Manual and EOSS Su	apport		
Inspect PMS Support			
Inspect Gauge Calibration			
Inspect Transducer Calibration			
Inspect Coupling Guard			
Test local start/stop functions			
Inspect pump operation/design disc	charge pressure,		
unusual noise, bearing temps, etc.			
Inspect packing and mechanical se	al leakage		
Inspect for ferrous fasteners			
Inspect foundation and resilient mo	ounts		
Inspect all flex hoses are properly	tested/labeled		
Inspect grounding straps			

5532 / 5533	02N2 COMPRESSORS		ORS
Component/Sub-Component		Proposed	Accepted
		Procedure	Procedure
Test the operation of ventilation ala	rms in the O2N2		
spaces and DC Central.			
Test emergency shutdown switches	for air		
compressors.			
Test the deluge shower.			
Review Aviators Breathing Logs fo	r contamination		
of storage tanks and producers.			
Inspect control valve position indica	ators on the cold		
box.			
Inspect double-wall piping.			
Inspect producer cold box for leaks.			
Inspect all relief valves testing with	in periodicity.		
Test the operation of the electronic	bulk purity		
analyzer.			
Inspect gage calibration.			
Test the operation of the Orsat purit	y analyzer.		
Inspect liquid oxygen transfer hoses.			
Test the operation of the back-pressure regulating			
valve on the storage tanks.			
Test vacuum in the annular space of the storage tank.			
Perform vacuum pump dead end tes	it.		
Inspect storage flasks are stamped v	vith current test		

Test operation of all reducing manifolds.  Test operation of nitrogen automatic stop valves (hanger bay and flight deck).  Inspect O2 charging stations.  Test fwd and aft plants in both oxygen and nitrogen production.  Inspect production rates for O2 and N2 production.  Inspect operational parameters during O2N2 production.  Test purge flowmeter.  Test reactivation heaters.  Test product purity in each production.  Test liquid oxygen/liquid nitrogen cryogenic pumps.  Test liquid oxygen/liquid nitrogen vaporizers.  Inspect gaseous oxygen and nitrogen hoses.  Inspect gaseous oxygen and nitrogen hoses.  Inspect cryogenic transfer safety equipment (i.e. white coveralls, etc.)  Test the low temperature alarm for storage tanks during O2N2 charging.  Test operation of the R-22 refrigeration unit. (HP plants only)  Inspect operational parameters of R-22 unit. (HP Plant only)  Test water regulating valve. (HP Plant only)  Inspect the HPAC's IAW the attached INSURV HPAC checklist, as applicable.  Inspect the LPAC's IAW the attached INSURV LPAC checklist, as applicable  Test operation of the programmable logic control (PLC) panel (LP Plant only)
Test operation of nitrogen automatic stop valves (hanger bay and flight deck).  Inspect O2 charging stations.  Test fwd and aft plants in both oxygen and nitrogen production.  Inspect production rates for O2 and N2 production.  Inspect operational parameters during O2N2 production.  Test purge flowmeter.  Test reactivation heaters.  Test product purity in each production.  Test liquid oxygen/liquid nitrogen cryogenic pumps.  Test liquid oxygen/liquid nitrogen vaporizers.  Inspect gaseous oxygen and nitrogen hoses.  Inspect gaseous oxygen and nitrogen hoses.  Test the low temperature alarm for storage tanks during O2N2 charging.  Test operation of the R-22 refrigeration unit. (HP plants only)  Inspect operational parameters of R-22 unit. (HP Plant only)  Test water regulating valve. (HP Plant only)  Inspect refrigeration logs. (HP Plant only)  Inspect the HPAC's IAW the attached INSURV HPAC checklist, as applicable  Test operation of the programmable logic control
(hanger bay and flight deck).  Inspect O2 charging stations.  Test fwd and aft plants in both oxygen and nitrogen production.  Inspect production rates for O2 and N2 production.  Inspect operational parameters during O2N2 production.  Test purge flowmeter.  Test purge flowmeter.  Test product purity in each production.  Test liquid oxygen/liquid nitrogen cryogenic pumps.  Test liquid oxygen/liquid nitrogen vaporizers.  Inspect gaseous oxygen and nitrogen hoses.  Inspect cryogenic transfer safety equipment (i.e. white coveralls, etc.)  Test the low temperature alarm for storage tanks during O2N2 charging.  Test operation of the R-22 refrigeration unit. (HP plants only)  Inspect operational parameters of R-22 unit. (HP Plant only)  Test water regulating valve. (HP Plant only)  Inspect refrigeration logs. (HP Plant only)  Inspect the HPAC's IAW the attached INSURV HPAC checklist, as applicable  Test operation of the programmable logic control
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production.  Inspect production rates for O2 and N2 production.  Inspect operational parameters during O2N2 production.  Test purge flowmeter.  Test reactivation heaters.  Test product purity in each production.  Test liquid oxygen/liquid nitrogen cryogenic pumps.  Test liquid oxygen/liquid nitrogen vaporizers.  Inspect gaseous oxygen and nitrogen hoses.  Inspect cryogenic transfer safety equipment (i.e. white coveralls, etc.)  Test the low temperature alarm for storage tanks during O2N2 charging.  Test operation of the R-22 refrigeration unit. (HP plants only)  Inspect operational parameters of R-22 unit. (HP Plant only)  Test for air and non-condesable gases. (HP Plant only)  Inspect refrigeration logs. (HP Plant only)  Inspect the HPAC's IAW the attached INSURV HPAC checklist, as applicable.  Inspect the LPAC's IAW the attached INSURV LPAC checklist, as applicable  Test operation of the programmable logic control
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Inspect operational parameters during O2N2 production.  Test purge flowmeter.  Test reactivation heaters.  Test product purity in each production.  Test liquid oxygen/liquid nitrogen cryogenic pumps.  Test liquid oxygen/liquid nitrogen vaporizers.  Inspect gaseous oxygen and nitrogen hoses.  Inspect cryogenic transfer safety equipment (i.e. white coveralls, etc.)  Test the low temperature alarm for storage tanks during O2N2 charging.  Test operation of the R-22 refrigeration unit. (HP plants only)  Inspect operational parameters of R-22 unit. (HP Plant only)  Test for air and non-condesable gases. (HP Plant only)  Test water regulating valve. (HP Plant only)  Inspect the HPAC's IAW the attached INSURV HPAC checklist, as applicable.  Inspect the LPAC's IAW the attached INSURV LPAC checklist, as applicable  Test operation of the programmable logic control
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Test operation of the programmable logic control
(PLC) panel (LP Plant only)
· · · · · · · · · · · · · · · · · · ·
Test compressor surge point.
Test auxiliary lube oil pump.
Test operation of blow off valve and suction throttle
valve.
Test operation of the condensate drain valves.
Test the vent fog precipitator.

6651	BFIMA WORKSHOPS		OPS
Component/Sub-Componen	ıt	Proposed	Accepted
		Procedure	Procedure
Inspect BFIMA matrix and determine th	e required		
capabilities for the ship			
Inspect the following items as they pertagnish	in to the		
applicable workshops:			
- PMS and Tech Manual Support of all i	nstalled		
equipment			
- Test operational condition of all install	ed		
equipment (E-stops, cutting fluid etc).	•.		
- Test all installed equipment in their cap			
- Inspect the monorail layout and ensure	it supports		
the function of the workshop			
- Inspect all gauge calibration (calipers)			
<ul><li>Inspect correct software/hardware pres</li><li>Inspect correct/adequate cutting fluids</li></ul>			
present	and ons are		
- Shops			
- Machine Shop			
- Welding Shop			
- Filter Cleaning Shop			
- Engraving Shop			
- Sheet Metal Shop			
- Motor Rewind Shop			
- Carpenter Shop			
- Valve Shop			
- Internal Combustion Engine Shop			
- Pipe Shop			
- Hydraulic Shop			
- Shipfitting Shop			
- AC&R Shop			
- Pump Shop			
r ·- · r			

### ELECTRICAL (EL) PRE-UNDERWAY PHASE AS-39

	S	SHIPS SERVICE DIESEL O	GENERATORS
COMPONENT/SYSTEM		PROPOSED PROCEDURE	ACCEPTED PROCEDURE
Test Dead Bus Pi	ck-Up		
Test Reverse Pow	ver Relays		
Test Parallel Oper	ration		
Test Auto Start/V Loading	erify		
		400 HERTZ DISTRIBUTIO	ON SYSTEM
COMPONENT	/SYSTEM	PROPOSED PROCEDURE	ACCEPTED PROCEDURE
Test Split and Par Operation	rallel		
,	TELL-TAL	E PANEL/NAVIGATION S	IGNAL LIGHT PANEL
COMPONENT	/SYSTEM	PROPOSED PROCEDURE	ACCEPTED PROCEDURE
Test navigational panel.	lighting		
Test signal light p	oanel.		
Measure insulation resistance of electricits			
		ANNOUNCING SY	STEMS
COMPONENT/SYSTEM		PROPOSED PROCEDURE	ACCEPTED PROCEDURE
Test General, Che Collision Alarms stations			

Test 1MC from all stations			
Test 5MC Operation			
Test 6/21MC Operation			
		DEGAUSSING SY	YSTEM
COMPONENT/SYSTEM		PROPOSED PROCEDURE	ACCEPTED PROCEDURE
Conduct Linearity Test			
Conduct on line ground test.			
Inspect Degaussin	ng Folder		
	AU	UTOMATIC BUS TRANSF	TER EQUIPMENT
COMPONENT	SYSTEM	PROPOSED PROCEDURE	ACCEPTED PROCEDURE
Test All Main An Auxiliary Space V Power And Light	Vital		
		EVAPORATO	PRS
COMPONENT	/SYSTEM	EVAPORATO PROPOSED PROCEDURE	ACCEPTED PROCEDURE
COMPONENTA  Test dump valve of		PROPOSED	ACCEPTED
	operation	PROPOSED	ACCEPTED
Test dump valve	operation	PROPOSED	ACCEPTED PROCEDURE
Test dump valve	operation	PROPOSED PROCEDURE	ACCEPTED PROCEDURE

		THERMAL IMAGING	SURVEY
COMPONENT/SY	YSTEM	PROPOSED PROCEDURE	ACCEPTED PROCEDURE
Commence Therma Imaging Throughou Ship	-		
NOTE: Engineering Equipment For Get Underway will be so First. Any Controlled Distribution Fuse Bower Panel and Assurveyed above And Temperature of 40 Centigrade And About Be repaired Posting Underway.	ting urveyed er, Eox, BT abient degrees cove rior To		

#### ELECTRICAL (EL) UNDERWAY PHASE

**NOTE**: Electrical Underway Checks Consist Mainly Of Space Walk-Through Throughout The Ship.

In each space inspect the following if applicable:

#### (INSPECT) FUSE BOXES

· · · · · · · · · · · · · · · · · · ·	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Are fuses pulled from designated circuits without danger tags affixed?	NSTM 300 - 2.4.1
Are there loose or missing locking nuts or gear adrift?	NSTM 300 – 4.8.1
Are circuits properly labeled for easy identification?	GSO 305E
Are there any bent, twisted, misaligned, or broken fuse clips?	NSTM 300 4.8.1
Is the interior rusty or dirty?	NSTM 300 – 4.8.1/5.2.4
Are fuses of the correct amperage and voltage	GSO 303F
installed?	NSTM 320 – 1.7.4
Are circuits fed from one set of fuses (except battle lantern circuits) multiple?	GSO 331C
Are fuse clips phosphor-bronze instead of silver plated?	NSTM 300 – 4.8.1.2
Were door hinges broken?	5100.19 SERIES NSTM 300
Are non-silver ferruled fuses installed?	NSTM 300 - 2.5.4
Are circuits over fused?	NSTM 300 – 2.5.4
Is clearance provided to permit complete accessibility for maintenance, repair, renewal of fuses, and testing?	GS0 300D

#### (INSPECT) BATTLE LANTERNS

COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were relay-operated lanterns installed in sufficient number?	NSTM 330 – 1.6.4.3.3.1
Are lanterns installed with suitable bracket assemblies to prevent removal of lantern?	NAVSEA 0964-000-2000 NSTM 300
Were lanterns inoperative?	NSTM 330 – 3.6.2
Were test switches and relay frames grounded?	NSTM 330 – 2.1.8

(INSPECT) BATTLE LANTER	RNS (CON'T)
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were lanterns located in explosion proof enclosures (prohibit)?	NSTM 330 – 1.6.4.3.2.2
Were NEALS lanterns installed and were they charged (red indicator)?	NSTM 330 – 1.6.4.3.2
Were relay operated lanterns fused?	NSTM 330 – 1.6.4.3.3.3
(INSPECT / TEST) SHORE POV	WER SYSTEM
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Is shore power being properly rigged?	NSTM 320-2.2.7
Did shore power shunt trip interlocks trip its	IAW PMS
associated breakers when tested?	IAW EOSS
	GSO 320D
Was shore power system cabling between the	SPRU
receptacles and the ship's switchboard insulation	NSTM 300/320
resistance within EOSS or PMS Limits	
Were shore power indicating lights operative, white in color, and all screws installed?	NSTM 320 – 2.2.9
Were warning signs posted?	GSO 070H
Was there pigtail stowage installed?	GSO 320D
Does the shore power system meet the current	GSO 320D
standards:	
<ul> <li>Have a Viking Connector System</li> </ul>	
<ul> <li>Have AQB-LF400 Amp Circuit Breaker</li> </ul>	
with shunt trip	
- Have a phase sequencing and phase	
orientation devices.	
- Have installed ammeter and selector switch	
to monitor total shore power current.	

Was the installed Cathodic Protection System operative and adjusted  Were the rudder grounding straps made of 1-1/2 inch wide braided copper and brazed to the rudder stock and the hull?  Has the system been turned off greater than 15 days?  Was brush rigging correctly installed?  Were shaft grounding brushes correctly installed?  Did shaft grounding brushes exhibit full contact with the slip ring?  (INSPECT / TEST) ALARM S  COMPONENT/SYSTEM  Test alarm switchboards and panels.  Were any alarm and warning systems inoperative or missing parts?  (INSPECT) ORDER/INDICATING/MET  COMPONENT/SYSTEM	
wide braided copper and brazed to the rudder stock and the hull?  Has the system been turned off greater than 15 days?  Was brush rigging correctly installed?  Were shaft grounding brushes correctly installed?  Did shaft grounding brushes exhibit full contact with the slip ring?  (INSPECT / TEST) ALARM S  COMPONENT/SYSTEM  Test alarm switchboards and panels.  Were any alarm and warning systems inoperative or missing parts?  (INSPECT) ORDER/INDICATING/MET  COMPONENT/SYSTEM	GSO 633C  GSO 633G  NSTM 633- 3.3.2.6  NSTM 633  ICCP Tech Manual  NSTM 633 – 3.3.2.6  ICCP TECH MANUAL  YSTEMS  PROPOSED PROCEDURE  4351/Q-2
Was brush rigging correctly installed? Were shaft grounding brushes correctly installed? Did shaft grounding brushes exhibit full contact with the slip ring?  (INSPECT / TEST) ALARM S  COMPONENT/SYSTEM  Test alarm switchboards and panels.  Were any alarm and warning systems inoperative or missing parts?  (INSPECT) ORDER/INDICATING/MET  COMPONENT/SYSTEM	NSTM 633- 3.3.2.6  NSTM 633 ICCP Tech Manual NSTM 633 - 3.3.2.6 ICCP TECH MANUAL  YSTEMS  PROPOSED PROCEDURE 4351/Q-2
Were shaft grounding brushes correctly installed?  Did shaft grounding brushes exhibit full contact with the slip ring?  (INSPECT / TEST) ALARM S  COMPONENT/SYSTEM  Test alarm switchboards and panels.  Were any alarm and warning systems inoperative or missing parts?  (INSPECT) ORDER/INDICATING/MET  COMPONENT/SYSTEM	NSTM 633 ICCP Tech Manual NSTM 633 – 3.3.2.6 ICCP TECH MANUAL  YSTEMS  PROPOSED PROCEDURE 4351/Q-2
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Were any alarm and warning systems inoperative or missing parts?  (INSPECT) ORDER/INDICATING/MET COMPONENT/SYSTEM	
(INSPECT) ORDER/INDICATING/MET COMPONENT/SYSTEM	GSO 433J
COMPONENT/SYSTEM	
	TERING SYSTEMS
	PROPOSED PROCEDURE
Were Tank Level Indicators (TLI's) out of calibration or inoperative?	GSO 437 E
Were valve position indicator circuits misadjusted or inoperative?	GSO 430H
Were there missing or inoperative salinity cells?	GSO 531B
MOTOR COMPONE	IAW PMS
MOTOR CONTROLLE	AKS
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were interiors dirty, rusty, deteriorated, or contained gear adrift?	NSTM 302-3.3.2 GSO 320F
Were wiring diagrams, schematics or overload heater	NSTM 302-3.3.1

MOTOR CONTROLLERS (CON'T)		
COMPONENT/SYSTEM	PROPOSED PROCEDURE	
Was controller electrical wiring properly banded?	ELECT PLT. INST. STD METHODS/GSO 302F	
Were Start, Stop, "Emergency Run" or Reset buttons seized, missing or inoperative?	3001/S-1/18M-1	
Were rubber boots cracked, torn or missing?	NSTM 300-3.2.2 3001/S-1/18M-1	
Were overload relay heaters properly sized and adjusted to provide adequate protection for the motor?	NSTM 302-3.3.2 GSO 302G	
Were switches protected against inadvertent activation?	GSO 070H	
Were controllers with multiple power sources properly labeled?	GSO 305C	
Were motor foundations properly preserved?	GSO 631J	
Were controllers and remote operating stations properly labeled?	GSO 305C	
Is clearance provided to permit complete accessibility for operation, maintenance, repair, renewal of fuses, and testing?	GSO 300D	
WORKBENCHES		
COMPONENT/SYSTEM	PROPOSED PROCEDURE	
- Does the workbench conform to standards set forth in NSTM 300 APP H? (Insulation, ground straps, disconnect switches, labeling, ground connections, etc)	NSTM 300 GSO 320E GSO 665 GSO 650	
(INSPECT) ELECTRICAL	SAFETY	
COMPONENT/SYSTEM	PROPOSED PROCEDURE	
Were flat irons a high-grade commercial type with a three pronged cord?	NSTM 300-2.7.3.6 GSO 640G	

W I	CSO (40C
Were Ironing Board Stations in berthing space modified to remove spotlight and fill the access hole?	GSO 640G
Ensure irons are not hardwired.	
(INSPECT) ELECTRICAL SAFE	ETY (CON'T)
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Have shorting probes been modified by installing a nylon screw in the end of the probe and soldering the clip to the conductor?	NAVELEX 0101, 110A FIG 1- 3 IAW PMS
Are portable tools/devices not stamped "Double Insulated" or equipped with a three pronged cord?	NSTM 300-2.7.3.3 IAW PMS
Were Hospital grade plugs used on portable equipment?	NSTM 300-2.7.3.2.8
Were light fixtures, guards, and covers securely mounted?	NSTM 300-4.3.3
Were over-sized lamps installed in lighting fixtures?	NSTM 330-2.2.4 NSTM 330-2.2.9
Were light fixtures missing lenses, protective guards, or faceplates?	NSTM 330-2.1.4 NSTM 330-2.2.6
Did diesel module room have adequate lighting?	GSO 331B GSO 332E
Were spray-tight fixtures adequately protected against water intrusion?	
Was bunk lighting cable hanging, or not routed through the inside of bunk stanchions?	NAVSEA 0964-000-2000
(INSPECT) CABLIN	G
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Was PVC cabling installed (new construction only)?	GSO 304D
Were dead-ended cables properly identified/terminated?	NSTM 300-4.6.7 GSO 304E NSTM 300-4.6.9 DOD-STD-2003-1
Were useless or improperly installed cables removed?	NSTM 300-4.6.7.1 GSO 304E
Was cabling properly supported, routed or were nylon	GSO 304E

wire ties being utilized?	

(INSPECT) CABLING (C	CON'T)
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were cables pulling out of equipment?	GSO 331E
Were cables improperly spliced?	GSO 304E NSTM 300-4.6.8
	DOD-STD-2003-1
Were cables protected against being handholds or being stepped on?	GSO 304E
Was cabling run through beams without the use of chaffing rings?	NSTM 300 TABLE 300-4-4 GSO 304E
Was cabling running through metal partitions equipped with grommets?	GSO 304E NSTM 320-1.6.11
Were cable stuffing tubes properly assembled?	NSTM 300-4.6.10.1 NSTM 300 TABLE 300-4-4 NSTM 320-1.6.11
XXI II II	GSO 304E
Were multiple cables running through one stuffing tube?	GSO 304E NSTM 300 TAB. 300-4-4
Were multi-cable penetrators installed in Flammable Liquid Storerooms?	GSO 304E MIL-STD-1310
(INSPECT) BUS TRANSFER E	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
<ul> <li>Were ABT's installed for the following:</li> <li>Emergency Lighting.</li> <li>IC Switchboard and panels.</li> <li>Steering power panel.</li> <li>Pumps associated with the main and auxiliary machinery plant having Low Voltage Release (LVR) control.</li> <li>Fire pumps.</li> <li>Fire extinguishing auxiliaries and controls.</li> </ul>	NSTM 320-1.3.2 GSO 320D
Did ASCO ABT transfer switches have an electrical charge on the metal screw on the manual operator?	NAVSEA FSC SER 03E2/03E2-234
Was the sliding interlock on manual bus transfer switches effective at preventing both breakers from	NSTM 300-4.8.4.2

being closed at the same time?	
Are feeder circuit breaker megger holes blanked off?	NAVSEA 230319ZNOV 98
Were Normal/Alternate source indicating lights operative?	NSTM 320-2.2.6.4
(INSPECT) SHIP TELEPHON	E SYSTEM
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Was the system unreliable due to unresolved software or hardware deficiencies?	NSTM 430-3 GSO 432
Test battery back-up for telephone system	NSTM 313-2.5 GSO 313J
(INSPECT) MOTOR	as
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were motor foundations properly preserved?	NSTM 300- 5.4.3.10 GSO 631J
Was resilient mounted electrical equipment groundedto the ships hull through ground straps?	NSTM 300- 2.2.1
Did electrical rotating machinery have ball check grease fittings (zerk fittings) installed?	NSTM 244
Were coupling, belt, or chain guards effective?	GSO 320E
POWER PANELS	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Do labels specify the proper information?	GSO 305E
Do Breaker ratings match the circuit label current rating?	GSO 305E
Are multi-phase circuits missing breaker connecting handles?	GSO 324C
Were power panels located inside galley spaces?	GSO 320E
Is clearance provided to permit complete accessibility?	GSO 300D
CASUALTY POWER CA	ABLES
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were cable ends properly terminated?	GSO 304E NSTM 320-3.4.1
	DOD-STD-2003

humidity?	
Were normally energized power terminals labeled?	NSTM 320-1-2-8-2 GSO 320G
Were racks properly identified as to number/length of cables assigned to the rack?	GSO 305F
CASUALTY POWER CABLE	S (CON'T)
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Is there a label attached at the end of the cable to indicate the length and stowage rack number?	GSO 305F DOD-STD-2003
Are cable leads properly identified for phase identification?	NSTM 320-1.2.8.2
Were cable ferrules missing or heavily oxidized?	NSTM 079-47.4.2.2.6
Was an improper number/length of cable installed on a cable rack?	NSTM 079-47.5.6.1 GSO 320G
Were wrenches missing from terminals?	NSTM 079-47.4.2.3.3
Were covers installed on power terminals?	NSTM 079-47.4.2.3.4 NSTM 079-47.4.2.3.6 GSO 320G
ELECTRICAL DISTRIBUTION	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Was electrical distribution equipment securely mounted?	NSTM 300-4.3.3 GSO 300D
Electrical distribution equipment have loose or missing covers?	NSTM 300-4.3.3
Were control knobs or fasteners missing from electrical equipment?	NSTM 300-4.3.3
Was electrical equipment protected from water intrusion?	NSTM 300-4.4.1 NSTM 300-4.4.5
Is electrical properly mounted or was it suspended solely by electrical cables?	NSTM 300-4.3.3
Were 440 multipurpose outlets properly phased?	NSTM 320-1.4.1
Did Standard Navy Receptacles (SNR) and Multi-Purpose Outlets (MPO) have an interlock switch or was the switch function such that the plug	NSTM 320-1.4.1

could not be removed from an energized receptacle?	
Were electrical receptacles broken or damaged?	NSTM 300-2.7.6
Were 400HZ AC, 60HZ AC, and DC convenience	GSO 320
outlets labeled to prevent equipment being used with	
the wrong frequency?	
SOUND POWERED TELEPHON	E SYSTEMS
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were any Sound Powered Circuits below 50,000 ohms resistance to ground?	GSO 432I
Were Sound Powered Call Signal Stations (growlers)	NSTM 430
inoperative, corroded, damaged or missing parts?	
Were Sound Powered Jackboxes improperly labeled,	NSTM 430-3.2
corroded, damaged, or missing parts?	
(INSPECT) LIGHTIN	G
COMPONENT/SYSTEM	PROPOSED
COM ONE WISTOREM	PROCEDURE
Were darken ship switches operative and adjusted	DOD-HDBK-289
properly? Ship provide list of darken ship switches for	NSTM 330-3.6.5
survey.	
Were light fixtures, guards, and covers securely mounted?	NSTM 300-4
Were over-sized lamps installed in lighting fixtures?	NSTM 330-2
Were light fixtures missing lenses, protective guards, or faceplates?	r NSTM 330-2
Were spray-tight fixtures adequately protected against water intrusion?	NSTM 300-4
Did diesel module room have adequate lighting?	GSO 331B/332E
(INSPECT) BATTERY LO	CKERS
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Was a Battery Log maintained?	NSTM 313-2
	GSO 313F
Is there an electrical interlock between exhaust	5100.19C C0904
ventilation and battery charger?	NSTM 313
Test ventilation interlocks	3131/S-2
Are Alkaline and Lead Acid Batteries being serviced in	5100.19 C0904
	1

Is each locker provided with:	5100.19
- Rubber Gloves and Aprons.	GSO 313F
- Goggles.	NSTM 313
- Two battery fillers.	
- Two battery test sets.	
- One soda water container.	
Does the locker contain an eye wash station and a	NSTM 313-2
deluge shower?	

(INSPECT) BATTERY LOCKERS (CON'T)		
COMPONENT/SYSTEM	PROPOSED PROCEDURE	
Are battery storage racks greater than 12 inches between tiers?	GSO 313F	
Were battery hold-down clamps provided?	GSO 313F	
Are Acids stored in appropriate protective containers?	GSO 313F	
Are battery charger plugs and jacks marked NEG. and POS.?	GSO 313F	
(INSPECT) MISCELLANEOUS E	QUIPMENT	
COMPONENT/SYSTEM	PROPOSED PROCEDURE	
Is permanently mounted electrical equipment hardwired to the ships electrical system?	NSTM 330-1	
Is hardwired electrical equipment permanently mounted?	NSTM 330-1	
Was more than 1 multi-purpose power strip connected to one isolated receptacle circuit?	NSTM 300-2.7	
Is electrical equipment mounted on non-conducted surfaces properly grounded?	3000 / A-5	
Were Surge Protectors of the approved type?	3000 / A-4R	
Are portable electric device power cords properly tinned?	3000 / Q-1R	
Are permanent-type safety precautions, operating instructions, high voltage warning signs, and resuscitation instructions installed where required?	NSTM –H.5, I-2	
Did electrical connection boxes have knockouts pushed in leaving access holes In the side?	NSTM 300-2.	

Are non-watertight connection boxes being used in	
engineering spaces?	
Was rubber matting oil soaked, cracked, punctured,	GSO 634B
perforated or had imbedded metal or conductive	
particles?	

(INSPECT) MISCELLANEOUS EQUIPMENT (CON'T)		
COMPONENT/SYSTEM	PROPOSED PROCEDURE	
Did dress ship lights have broken, missing, or incorrect guards?	NSTM 330-1 3000/ R2	
Were dress ship light receptacles labeled "Dress Ship Light Streamers. Not to be used for any other purpose"?		
	NSTM 330-1-	
Were panel switches controlling circuits that are de- energized during darkened ship operation marked DARKENED SHIP?		
	NSTM 330-1	
Had the float charge on the UPS batteries been reduced from 135vdc to 129vdc?		
	IAW PMS	
Was UPS electronic cabinet bottom sealed to prevent water of oil entry from lower level engine room?	GS0 300D/324D NSTM 300-4	

# ELECTRICAL (EL) POST-UNDERWAY AS 39 OPEN AND INSPECT AS REQUIRED BY THE INSPECTION COMPONENT/SYSTEM PROCEDURE PROCEDURE

## MAIN PROPULSION PRE-UNDERWAY PHASE AS 39 PROPULSION BOILERS

2210 PROPULSION BOILERS		
Component/Sub-Component	Proposed Procedure	
IDLE BOILER:		
Test F/O safety shutoff/root valves	2210/006 (R-5, R-6)	
Test F/O Quick Closing Valves	EOP FOS	
Inspect burner lead bends and flange shields	NSTM 505	
Test final control element air locks	F-26 (A-3R)	
Test F/O service tank bulkhead stop valves	LOCAL PROCEDURE	
Test F/O service tank Quick Closing valves	LOCAL PROCEDURE	
Test steam smothering system	EOP FBAC	
Test safety valve hand easing gear	2210/006 (24M-2)	
Test remotely close main steam stop valve	5000/005 (A-3)	
Test remotely close auxiliary steam stop valve	5000/005 (A-3)	
ALL BOILERS:		
Test boiler water high/low level alarms	2210/006 (Q-1R, Q-3R)	
Test gauge glass hand easing gear	EOP BGG	
Inspect gauge glass normal/emergency lighting	NSTM 221	
Inspect bottom blow system material	2210/006 (18M-3R)	
Inspect bottom blow valves for leak by	2210/005 (R-4)	
Inspect for sliding feet movement	2210/005 (M-1)	
Inspect gauges/instruments	CRL/CIL	
Inspect Stack Gas Analyzer	NSTM 221	
Inspect Periscope	NSTM 221	
Inspect smoke pipe expansion joint	NSTM 221	
Inspect Boiler Casing and Insulation	NSTM 221	
Inspect Sample Coolers	NSTM 220	
Inspect drain valve piping	NSTM 221505	

2550	MAIN FEED PUMPS	
	nent/Sub-Component	Proposed Procedure
•	trip and roll over	F-013/089 (Q-1)
Test overspeed to	rip mechanism	EOP MFPT
	n exhaust/relief valve	5000/013 (72M-1R)
Inspect pump pacl	king gland/mechanical seal	NSTM 503
Inspect flange ship		NSTM 505
Inspect relief valv		NSTM 505
Inspect gauges/ins		CRL/CIL
2550	MAIN BOOSTER PUMPS	
Component/Sub-Component		Proposed Procedure
Test low pressure		F-014/023 (S-2)
Inspect gauges		CRL/CIL
Inspect MFBP		NSTM 302
- motor controller		NSTM 503
- pump motor		
- pump packing gl	land/mechanical seal	
2511 FORCED DRAFT BLOWERS		ERS
Component/Sub-Component		Proposed Procedure
Test low lube oil	trip and roll over	F-002/063 (S-3)
Test speed limiting	ng governor	F-002/063 (S-1)
Inspect/Sample lu	be oil	2000/001 (R-1)
Test damper ope	ration	F-002/063 (18M-1)
Test Combinatio	n Exhaust Relief Valve	5000/013 (72M-1R)
Inspect gauges/instruments		CRL/CIL
Inspect flange shields		NSTM 505
2610 FUEL OIL SERVICE PUMPS		MPS
Compo	nent/Sub-Component	Proposed Procedure
	down (cold plant)	F-004/001 (S-4)
Test Combination Exhaust Relief Valve		5000/013 (72M-1R)
Test Speed Limiting Governor		F-004/001 (Q-1, S-3)

Inspect Electric Fuel Oil Service Pump	NSTM 302
- motor controller	NSTM 503
- pump motor	
- packing gland/mechanical seal	
Inspect gauges	CRL/CIL
Flush revolving basket strainer	F-044/017 (R-5)
Shift duplex strainer	EOP FOS
Inspect discharge relief valve	NSTM 505

2550	DEAERATING FEED TA	ANK
Compon	ent/Sub-Component	Proposed Procedure
Test DFT gauge gl	lass hand easing gear	NSTM 255V2
Test D.O.		NSTM 220
Inspect for leaks		NSTM 255V2
Inspect DFT relief	valve	NSTM 255V2
Inspect DFT vacuus	m breaker	NSTM 255V2
Inspect DFT gauge	glass	NSTM 255V2
Inspect gauges/inst	ruments	CRL/CIL

2550	EMERGENCY FEED PUMP	
Compor	nent/Sub-Component	Proposed Procedure
Demonstrate oper successfully for 10	ration and feed boiler ) minutes	EOP MFPR
Inspect for steam/v	vater leakage	EOP MFPR
Inspect pump disch	narge relief valve	NSTM 505
Inspect gauges/inst	ruments	CRL/CIL

2211	BOILER INSPECTION DEVICE	
Component/Sub-Component Proposed Procedure		Proposed Procedure
Test boiler inspection device		2211/002 (M-2R)
Inspect boiler insp	ection device case	2211/002 (R-3)

ADMIN/DOCUMENTATION		
Component/Sub-Component	Proposed Procedure	
BW/FW records (last 3 months)	NSTM 220/221	
Bottom blow UT records	NSTM 220/221	
Soot blow ppg UT records	NSTM 220/221	
Soot blow head UT records	NSTM 220/221	

Burner barrel hydrotest records	NSTM 220/221
Burner barrer frydrotest records	1401141 220/221

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2320 MAIN ENGINES	
Component/Sub-Component	Proposed Procedure
Test Main Condenser SW Inlet Valve	5000/005 (S-2)
Test Main Condenser SW Outlet Valve	5000/005 (S-2)
Test Scoop Injection SW Inlet Valve	5000/005 (S-2)
Test Main Circ Pump Emerg Bilge Suction Vlv	E-005/021 (S-2)
Test Main Engine Guarding Valve	5000/005 (S-3)
Test Throttle Valves	5000/005 (S-2)
Inspect Turbine Gland Seal Regulating Valve	NSTM 505
Inspect Turbine Gland Seal Dump Valve	NSTM 505
Inspect Turbine Crossover Piping Sentinel Valves	E-700/17 (24M-2)
Test Main Circ Pump Speed Limiting Governor	E-005/021 (Q-4)
Inspect gauges and instruments	CRL/CIL
Inspect Air Ejectors	EOP MEAJ
Inspect Drain systems	EOP MD

2410 REDUCTION GEARS		
Component/Sub-Component		Proposed Procedure
Test Shaft Turning Gear and Locking Device		EOP MEJG
Inspect Sump Level and Lube Oil Condition		2000/001 (R-1)
Inspect Gear Teeth, Lube Oil Spray Pattern,		E-700/017 (R-22)
Casing Interior		
Inspect Attached LO Pump Angle Drive Gear		E-700/017 (24M-6)
Inspect Oil Flow in SFI's		NSTM 241
Inspect Temperature Gauges		CRL/CIL
Inspect Casing Exterior		NSTM 241
Inspect Vent Fog Precipitator		NSTM 241
Inspect Security Devices		NSTM 241
Inspect Piping Systems		NSTM 505
Inspect Flange Shielding		NSTM 505
Dehumidifier		NSTM 241

2990	LINE SHAFT BEARINGS	
Component/Sub-Component		Proposed Procedure
Inspect/Sample lube oil		2000/001 (R-1)
Inspect Sump Drain Valve		NSTM 244
Inspect Seals		NSTM 244
Inspect Thermometers		CRL/CIL
Inspect Lubricator		NSTM 244
Inspect Dip Stick		NSTM 244
Inspect Lock Wires		E-700/017 (R-25)
Inspect Bearing Depth Mic Surface		NSTM 244

2430	2430 STERN TUBE SEALS	
Component/Sub-Component		Proposed Procedure
Test Cooling Water Low Flow Alarm		EOP STC
Test Inflatable Seal		E-012/026 (S-1, S-3)
Inspect Gauges		CRL/CIL
Inspect Cooling Water Piping		NSTM 505
Inspect/shift Cooling Water Strainer/Filter		EOP STC
Inspect underway seal leakage rate		NSTM 244
Inspect LP Air Supply		E-012/026 (S-1, S-3)
Inspect LP Piping/Hoses/Fittings		E-012/026 (S-1, S-3)
Inspect CO2/N2 Piping/Fitting		E-012/026 (S-1, S-3)
Inspect Emergency Flax Packing Kit		E-012/026 (S-1, S-3)

2500	CONTROLS

Component/Sub-Component	Proposed Procedure
Test EOT Indicator	EOP MEOT
Test RPM Indicator	EOP MEOT
<b>Test Console Alarms and Indicators</b>	EOP MEOT
<b>Test Wrong Direction Alarm</b>	EOP METT

2620	LUBE OIL SYSTEMS	
Component/Sub-Component		Proposed Procedure
Test Main Engine Lube Oil Sequencing		E-010/047 (Q-1)
	e Low Lube Oil Alarm	E-010/047 (Q-2)
Inspect Electric L	ube Oil Pump	NSTM 503
- Motor		
- Flexible couplin	g	
- Mechanical Seals		
- Valves and piping		
Inspect SLOP Lub	e oil sump level	2000/001 (R-1)
Inspect Steam Lube Oil Pump (SLOP)		NSTM 503
- Turbine		
- Pump		
- Mechanical Seals		
- Valves and piping		
Test combination/exhaust relief valve		5000/013 (72M-1R)
Test SLOP speed limiting governor		E-009/070 (Q-1, Q-2)
Inspect attached Main Engine Lube Oil Pump		NSTM 503
- Coupling		
- Mechanical Seals		
Inspect Lube Oil S	Strainer Baskets and enclosure	EOP LODS
Inspect Flexible h	ose assemblies	5000/014 (A-1, A-2)
Inspect system fla	nge shields	NSTM 505
Inspect lube oil pump relief valves/test data tag		NSTM 505
Inspect gauges and instruments		CRL/CIL
Inspect Temp Regulating Valve		NSTM 505
Inspect Unloading Valve		NSTM 505
Demonstrate Lube Oil Purifier Operation		EOP LOPO
Inspect Lube Oil Purifier Heater relief valve/test		NSTM 505
data tag		
Demonstrate Lube Oil Purifier Efficiency		NSTM 262

1130 HULL STRUCTURE
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Component/Sub-Component	Proposed Procedure
Inspect Bilges/Angle Irons	NSTM 100
Inspect Deck Plates	NSTM 100
Inspect Equipment Foundations and resilient	NSTM 100
mounts	
Inspect Paint and Preservation	6300/001 (S-1)
Inspect Pipe Brackets/Hangers	A-700/038 (18M-1R)
Inspect Lighting	NSTM 303

3110	GENERATORS	
Component/Sub-Component		Proposed Procedure
Inspect Lube Oil Condition/ Sump Level		2000/001 (R-1,2)
Inspect Lube Oil S	FIs	NSTM 241-2.3.8; 244-3.3.6
Inspect Vent Fog I	Precipitator	NSTM 241-3.2.6
Inspect/Shift Lube	Oil Strainer	EOP LOSTG
Airbox Telltale Dr	ains	NSTM 310
Test Alarm Panel		EOP TG
Inspect Gland Seal Operation		EOP TG
Inspect Aux Circ Pump - Motor - Controller - Packing gland/mechanical seal Inspect Aux Cond Pump - Motor		EOP TG
<ul><li>Controller</li><li>Packing gland/mechanical seal</li></ul>		
Inspect Aux Air Ejectors		EOP TG
Test Lube Oil Pu	mp Autostart	EOP TG
Test Low Lube O	il Alarm	E-013/124 (S-3)
Inspect Turbine Ca	asing Relief Valve	NSTM 505
Test Overspeed T	rip	E-013/124 (Q-1, Q-2)
Test Manual Trip	)	EOP TG
Test Back Pressure Trip		E-013/124 (A-10, A-11)

<b>Test Auxiliary Condenser SW Inlet Valve</b>	5000/005 (S-2)
<b>Test Auxiliary Condenser SW Outlet Valve</b>	5000/005 (S-2)
Inspect centrafilter	EOP TG
Inspect flange shields	NSTM 505
Inspect duplex oil filter(GOV)	EOP TG
Inspect Aux Condenser sight glass	EOP TG

ICAS	
Component/Sub-Component	Proposed Procedure
	Accepted Procedure
Verify operational status of each workstation	ICAS Tech Manual
Verify number of required portable data terminals (PDT) and that they are operational	ICAS Tech Manual
Verify number of required portable diagnostic aids (PDA) and that they are operational	ICAS Tech Manual
Are any critical system errors shown in the system log?	ICAS Tech Manual
Ensure data for at least two routes from actual rounds	ICAS Tech Manual
Ensure data from Data Acquisition devices is being received as required	ICAS Tech Manual
Verify Demand Data is received and processed accurately	ICAS Tech Manual
Verify database data is received and processed accurately	ICAS Tech Manual
Ensure router connections are operating properly	ICAS Tech Manual
Ensure remote demand data and database data are available to be viewed.	ICAS Tech Manual
Verify all required system links are available	ICAS Tech Manual
Verify all ICAS printers are operational	ICAS Tech Manual
Verify picture book is available for vibration checks	ICAS Tech Manual
Verify vibration data is being taken per PMS	ICAS Tech Manual
Verify vibration disc are installed on all	ICAS Tech Manual
equipment	
Conduct vibration surveys on selected equipment	ICAS Tech Manual
during the full power demonstration	
Inspect all cabinet air filters	MIP 2020 (M-3)
Inspect all ICAS computer equipment	MIP 2020 (A-1R)

Inspect computer internal shocks and fans	MIP 2020 (M-3)

MAIN PROPULSION UNDERWAY PHASE AS 39		
TEAM ARRIVAL		
Component/Sub-Component	Proposed Procedure	
Check applicable equipment for correction of deficiencies.		
Tour space, ensure ready for sea.		
MISCELLANEOUS		
Component/Sub-Component		
Inspect Oil Lab, sampling equipment	NSTM 220	
Complete Open and Inspect List and give a copy	y	
to the Engineer Officer.		
CHELANT TREATMEN	T SYSTEM	
Component/Sub-Component	Accepted Procedure	
Inspect Spill Locker and inventory	NSTM 220	
Inspect hydrazine locker	NSTM 220	
Inspect injection cabinet	NSTM 220	
Inspect chelant treatment tank and associated	NSTM 220	
equipment		
Inspect eyewash station	6600/002 (Q-8)	
DEMONSTRATIONS		
Component/Sub-Component	Proposed Procedure	
Demonstrate Full Power ahead (1 hour)	PMS/EOSS/POG/9094.1B	
Demonstrate Quick Reversal Astern	POG/Full Power Memo/EOSS	

Demonstrate Quick Reversal Ahead	POG/Full Power Memo/EOSS
Demonstrate soot blower operation as soon as	2210 (60M-1)
possible after underway. Note: Demonstrate	
soot blower head pressure PMS on one rotating	
and one stationary head per boiler while	
blowing tubes.	